

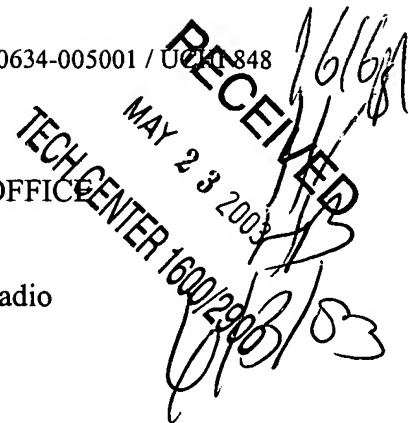


Attorney's Docket No.: 10634-005001 / UCLN 848

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ching Song et al.  
Serial No. : 10/072,128  
Filed : February 8, 2002  
Title : STERIODAL DERIVATIVES

Art Unit : 1616  
Examiner : Barbara P. Badio



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Commissioner for Patents  
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Alexandria, VA 22313-1450

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Copies of the references listed on the attached form PTO-1449 are enclosed.

This statement is being filed after a final Office action, but before payment of the issue fee. A check for \$180 in payment of the late submission fee of §1.17(p) is enclosed. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 5-20-03

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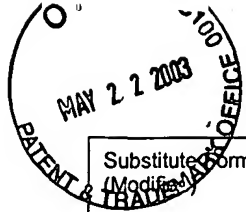
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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10634-005001	Application No. 10/072,128
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant <b>Ching Song et al.</b>	
		Filing Date February 8, 2002	Group Art Unit 1616

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	3,963,765	6/15/1976	Mazur et al.	260	397.2	
	AB	4,917,898	4/1990	Angelico et al.	424	452	
	AC	5,362,891	11/1994	Bonaldi et al.	552	554	
	AD	5,583,239	12/1996	Regen	552	554	
	AE	6,060,465	5/2000	Miljkovic et al.	514	169	
	AF						
	AG						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AH	123:286388	3/29/1995	China (Abstract Only)				
	AI	CN-110729	3/1995	Wang et al. (See AH)				
	AJ	EP 0 562 849 A2	9/29/1993	EPO				
	AK	JP 4169597	6/1992	Japan				
	AL	94/02503	2/1994	WIPO				
	AM	98/32444	07/30/1998	WIPO				
	AN							
	AO							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AP	Angelico et al., 'Dissolution of Human Cholesterol Gallstones in Bile Salt/Lecithin Mixtures: Effect of Bile Salt Hydrophobicity and Various pHs', Scandinavian Journal of Gastroenterology 30:1178-1185, 1995.
	AQ	Ajay Chawla et al., "Nuclear Receptors and Lipid Physiology: Opening the X-Files", <u>Science</u> , Vol., 294, pp. 1866-1870 (November 30, 2001)
	AR	Cohen et al., "The preparation of bile acid amides and oxazolines. II. The synthesis of the amides and oxazolines of ursodeoxycholic acid, deoxycholic acid, hyodeoxycholic acid and cholic acid", <u>Steroids</u> , Vol. 40, No. 6, pp. 701-711 (December, 1982)
	AS	Coleman et al., "Synthesis and Characterization of Novel Analogs of Conjugated Bile Acids Containing Reversed Amide Bonds", Journal of Lipid Research 36:901-910, 1995.

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**Other Documents (include Author, Title, Date, and Place of Publication)**

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	BA	Adomo Fini et al., "Quantitative Structure-Antimicrobial Activity Relationship in 5 $\beta$ -Cholanyl-24-benzylamine Derivatives", <u>Journal of Pharmaceutical Sciences</u> , Vol. 79, No. 7, pp. 603-605 (July 1990)
	BB	Charles Freudenreich, et al., "Design of Inhibitors from the Three-Dimensional Structure of Alcohol Dehydrogenase, Chemical Synthesis and Enzymatic Properties", <u>J. Am. Chem. Soc.</u> , pp. 3344-3353, (1984)
	BC	Xuan Fu et al., "27-Hydroxycholesterol Is an Endogenous Ligand for Liver X Receptor in Cholesterol-loaded Cells", <u>The Journal of Biological Chemistry</u> , Vo. 276, No. 42, pp. 38378-38387 (2001)
	BD	Josef E. Herz, et al., "Fluorinated Sterols. Part II: 26,27 - Polyfluorinated Desmosterols", <u>Journal of Fluorine Chemistry</u> , Vol. 8, pp. 209-222 (1976)
	BE	Mohammed N. Iqbal, et al., "Bile Acids. LXXXI. Synthesis and structural assignment of E/Z isomers of substituted methyl hydroxy-5 $\beta$ -cholest-24-en-26-oates", <u>Steroids</u> , Vol. 56, pp. 505-512 (October, 1991)
	BF	Janowski et al., "Structural Requirements of Ligands for the Oxysterol Liver X Receptors LXRA and LXR $\beta$ ", <u>Proc. Natl. Acad. Sci.</u> Vol. 96, pp. 266-271, (January, 1999).
	BG	Kim et al., "Inhibitors of Sterol Synthesis. Chemical Synthesis, Structure, and Biological Activities of (25R)-3 $\beta$ ,26-dihydroxy-5 $\alpha$ -cholest-8(14)-en-15-one, a Metabolite of 3 $\beta$ -hydroxy-5 $\alpha$ -cholest-8(14)-en-15-one", <u>Journal of Lipid Research</u> 30:247-261, 1989.
	BH	Naoyuki Koizumi, et al., "Synthesis of [25R] - and [25S]-25,26-Dihydroxyvitamin D31, <u>Tetrahedron Letters</u> , No. 32, pp. 2899-2902 (1978)
	BI	A. Kuritzkes, et al., "3-epi-Uzargerinen und 3-epi-17 $\alpha$ -Uzargerinen", <u>Helvetica Chimica Acta</u> , Vol. 62, pp. 1502-1515 (1959)
	BJ	Kurosawa et al., "Synthesis of 3 $\alpha$ , 7 $\alpha$ , 12 $\alpha$ -trihydroxy-and 3 $\alpha$ , 7 $\alpha$ -dihydroxy-5 $\beta$ -cholestan-26-oic Acids by the Use of $\beta$ -ketosulfoxide", <u>Steroids</u> 60:439-444, 1995.
	BK	Bryan A. Laffitte, et al., "LXRs control lipid-inducible expression of the apolipoprotein E gene in macrophages and adipocytes", <u>PNAS</u> , Vol. 98, pp. 507-512, (June 16, 2001)
	BL	Yvonne Lange, et al., "Cholesterol Movement in Niemann-Pick Type C Cells and in Cells Treated with Amphiphiles", <u>The Journal of Biological Chemistry</u> , Vol. 275, No. 23, pp. 17468-17475, (June 9, 2000)
	BM	Dieter Leibfritz, et al., "Nuclear Magnetic Resonance Spectroscopy. Carbon-13 Spectra of Cholic Acids and Hydrocarbons Included in Sodium Desoxycholate Solutions", <u>Journal of American Chemical Society</u> , Vol. 95, No. 14, pp. 4996-5003 (July 11, 1973)
	BN	Li et al., "Sterol Synthesis. Preparation and Characterization of Fluorinated and Deuterated Analogs of Oxygenated Derivatives of Cholesterol", <u>Chemistry and Physics of Lipids</u> 99:33-71, 1999.
	BO	S.H. Mujtaba Naqvi, "Chemical Synthesis and Mass Spectrometric Characterization of Some C-27 Steroids", <u>Steroids</u> , Vol. 22, pp. 285-290 (1973)
	BP	J. Polonia, et al., "Die Konstitution des Xysmalogenins", <u>Helvetica Chimica Acta</u> , Vol. 42, pp. 1437-1447 (1959)
	BQ	Roda et al., "Synthesis and Phsicochemical, Biological, and Pharmacological Properties of New Bile Acids Amidated with Cyclic Amino Acids", <u>J. Med. Chem.</u> 39:2270-2276, 1996.



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		Filing Date February 8, 2002	Group Art Unit 1616

**Other Documents (include Author, Title, Date, and Place of Publication)**

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	CA	Ruelle et al., "The Mobile Order Solubility Equation Applied to Polyfunctional Molecules: The Non-hydroxysteroids in Aqueous and Non Aqueous solvents", International Journal of Pharmaceutics 157:219-232, 1997.
	CB	Ching Song et al., "Auto-oxidized cholesterol sulfates are antagonistic ligands of liver X receptors: implications for the development and treatment of atherosclerosis", <u>Steroids</u> , Vol. 66, pp. 473-479 (2001)
	CC	Ching Song et al., "Hypolipidemic effects of selective liver X receptor alpha agonists", <u>Steroids</u> , Vol. 66, pp. 673-681 (2001)
	CD	Song et al., "Ubiquitous Receptor: A Receptor that Modulates Gene Activation by Retinoic Acid and Thyroid Hormone Receptors", Proc. Natl. Acad. Sci. 91:10809-10813, 1994.
	CE	Song et al., "Ubiquitous Receptor: Structures, Immunocytochemical Localization, and Modulation of Gene Activation by Receptors for Retinoic Acids and Thyroid Hormones", Annals of the New York Academy of Sciences 761:38-49, 1995.
	CF	Sweeny et al., "Metabolism of 5-fluorouracil to an N-cholyl-2-fluoro-β-alanine conjugate: Previously Unrecognized Role for Bile Acids in Drug Conjugation", Proc. Natl. Acad. Sci. 84:5439-5443, 1987.
	CG	Summerfield et al., "Identification of Bile Acids in the Serum and Urine in Cholestasis", Biochem. J. 154:507-516, 1976.
	CH	C Tamm, et al., "Umwandlung von Cardenoliden durch Mikroorganismen. III. Umsetzung von Aglykonen und Glykosiden mit Fusarium lini", <u>Helvetica Chimica Acta</u> , Vol. 42, pp. 239-259 (1959)
	CI	R. Tschesche, et al., "Über pflanzliche Herzgifte, XIX. Mitteil., Die Glykoside der Uzara-Wurzel", <u>Chemische Berichte</u> , Vol. 85, pp. 1042-1053 (1952)
	CJ	Varma et al., "Synthesis and C-25 Chirality of 26-Hydroxycholesterols", The Journal of Organic Chemistry 40:3680-3686, 1975.
	CK	Wei et al., "Modulation of Hormone-dependent Glucocorticoid Receptor Function Using a Tetracycline-regulated Expression System", J. Steroid Biochem. Molec. Biol. 64:1-12, 1998.
	CL	Michael W. Whitehouse et al., "Catabolism in vitro of cholesterol: some comparative aspects", <u>Arch. Biochem. Biophys.</u> , 98, pp. 305-311 (1962)
	CM	Xia et al., "Synthesis of N-Substituted 3-OXO-17β-Carboxamide-4-AZA-5α-Androstanes and the Tautomerism of 3-OXO-4-AZA-5-Androstenes", Heterocycles 47:703-716, 1998.
	CN	Stephen A. Ziller, Jr., et al., "Bile Acids. XXV. Allochenodeoxycholic Acid, A Metabolite of 5α-Cholestan-3β-OL in the Hyperthyroid Rat", <u>The Journal of Biological Chemistry</u> , Vol. 243, pp. 5280-5288 (1968)
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